ABSTRACT

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2	This invention concerns optimal ad selection for Web pages by selecting and
3	updating an attribute set, obtaining and updating an ad-attribute profile, and optimally
4	choosing the next ad. The present invention associates a set of attributes with each
5	customer. The attributes reflect the customers' interests and they incorporate the
6	characteristics that impact ad selection. Similarly, the present invention associates with
7	each ad an ad-attribute profile in order to calculate a customer's estimated ad selection
8	probability and measure the uncertainty in that estimate. An ad selection algorithm
9	optimally selects which ad to show based on the click probability estimates and the
10	uncertainties regarding these estimates.